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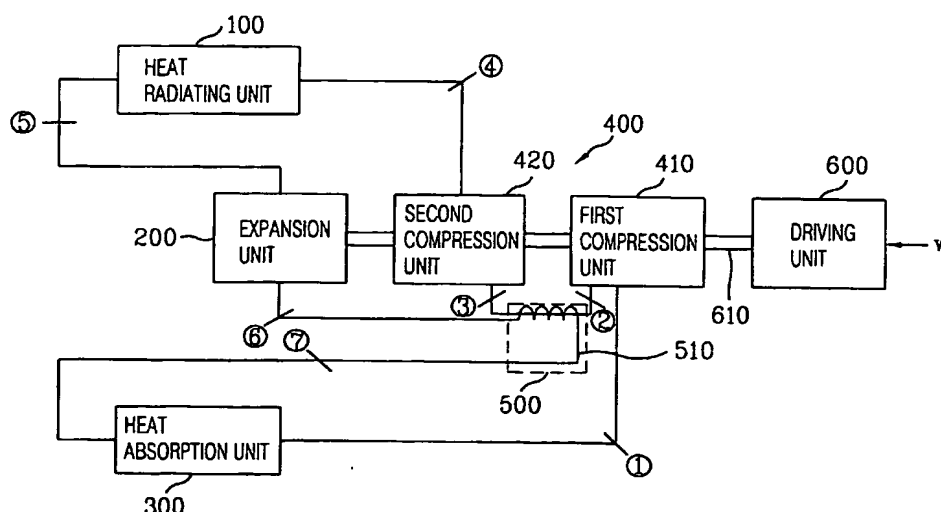
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(54) Title: REFRIGERATION SYSTEM AND COMPRESSOR THEREOF



(57) Abstract: A refrigeration system comprising: a heat absorption unit (300) for absorbing heat from a peripheral portion to fluid under a predetermined constant pressure; a first compression unit (410) for sucking the fluid discharged from the heat absorption unit (300) and compressing; an intermediate cooling unit (500) for cooling the fluid compressed in the first compression unit (410); a second compression unit (420) for re-compressing the fluid discharged from the intermediate cooling unit (500); a heat radiating unit (100) for radiating heat from the fluid compressed in the second compression unit (420) and discharged to a peripheral portion under a predetermined constant pressure; an expansion unit (200) for lowering pressure of the fluid which passed through the heat radiating unit (100) by an adiabatic expansion and driving the first and second compression units by work generated from the expansion; and a cooling flow path (510) for passing the fluid discharged from the expansion unit (200) through the intermediate cooling unit (500).

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